



SEQUENCE LISTING

<110> Sundelin, Johan
Scarborough, Robert M.

<120> Recombinant C140 Receptor, Its Agonists and Antagonists, and
Nucleic Acids Encoding the Receptor

<130> 44481-5006-09-US

<140> US 10/643, 627
<141> 2003-08-19

<150> US 10/127, 691
<151> 2002-04-23

<150> US 08/097, 938
<151> 1993-07-26

<150> US 08/390, 301
<151> 1995-01-25

<150> US 08/474, 414
<151> 1995-06-07

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<170> PatentIn Ver. 2.1

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acacaagaat tagacttcaa ccgtcaccaa ctgccctgtg taggacggtc ggtcaactgaa 180

agagaatatt gtctgcaata ctctaatgac atctgtctgt gttcatctga a atg ttc 237
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His Ser Glu Lys Lys Arg Gln Arg Ala Ile Arg Leu Ile Ile Thr Val	
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 Val Met Lys Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys
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 His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr
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Ser Ala Ser Val Leu Thr Gly Lys Leu Thr Thr Val Phe Leu Pro Ile
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Leu Trp Val Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala Val Ile
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Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe	
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Gln Met Gln Val Ser Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser			
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Val Met Lys Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys		
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His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr		
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260	265	270
Asp Glu His Ser Glu Lys Lys Arg Gln Arg Ala Ile Arg Leu Ile Ile		
275	280	285
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Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp			
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Val Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala			
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Ile Gly Ile Ser Leu Ala Ile Trp Leu Leu Ile Leu Leu Val Thr Ile			
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Phe	Leu	Thr	Ala	Ser	Ala	Tyr	Val	Leu	Met	Ile	Arg	Met	Leu	Arg	Ser
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Leu	Ile	Val	Thr	Val	Leu	Ala	Met	Tyr	Leu	Ile	Cys	Phe	Ile	Pro	Ser
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 Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile
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 Leu Lys Met Lys Val Lys Pro Ala Val Val Tyr Met Leu His Leu
 130 135 140
 Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser
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 Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg
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 Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu
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 Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met
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 Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu
 210 215 220
 Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys
 225 230 235 240
 Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp
 245 250 255
 Val Leu Asn Glu Thr Leu Leu Glu Gly Tyr Tyr Ala Tyr Phe Ser
 260 265 270
 Ala Phe Ser Ala Val Phe Phe Phe Val Pro Leu Ile Ile Ser Thr Val
 275 280 285
 Cys Tyr Val Ser Ile Ile Arg Cys Leu Ser Ser Ala Val Ala Asn
 290 295 300
 Arg Ser Lys Lys Ser Arg Ala Leu Phe Leu Ser Ala Ala Val Phe Cys
 305 310 315 320
 Ile Phe Ile Ile Cys Phe Gly Pro Thr Asn Val Leu Leu Ile Ala His
 325 330 335
 Tyr Ser Phe Leu Ser His Thr Ser Thr Thr Glu Ala Ala Tyr Phe Ala
 340 345 350
 Tyr Leu Leu Cys Val Cys Val Ser Ser Ile Ser Ser Cys Ile Asp Pro
 355 360 365

Leu Ile Tyr Tyr Tyr Ala Ser Ser Glu Cys Gln Arg Tyr Val Tyr Ser
370 375 380
Ile Leu Cys Cys Lys Glu Ser Ser Asp Pro Ser Ser Tyr Asn Ser Ser
385 390 395 400
Gly Gln Leu Met Ala Ser Lys Met Asp Thr Cys Ser Ser Asn Leu Asn
405 410 415
Asn Ser Ile Tyr Lys Lys Leu Leu Thr
420 425

<210> 8
<211> 7
<212> PRT
<213> Mus musculus

<220>
<223> C140 receptor activation peptide

<400> 8
Arg Asn Asn Ser Lys Gly Arg
1 5

<210> 9
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<400> 9
Xaa Leu Leu Gly Lys
1 5

<210> 10
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 antagonist

<220>
<221> VARIANT

<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 10
Xaa Leu Ile Gly Arg
1 5

<210> 11
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa
at position 2 = cyclohexylalanine

<400> 11
Xaa Xaa Leu Lys Gly
1 5

<210> 12
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)..(2)
<223> Xaa at position 1 = 3-mercaptopropionic acid; Xaa
at position 2 = cyclohexylalanine

<400> 12
Xaa Xaa Ile Gly Arg
1 5

<210> 13
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 13
Xaa Leu Leu Gly Lys Lys
1 5

<210> 14
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 14
Xaa Leu Ile Gly Arg Lys
1 5

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 15
Xaa Leu Ile Gly Arg Lys Glu Thr Gln Pro
1 5 10

<210> 16
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 3-mercaptopropionic acid

<400> 16
Xaa Leu Leu Gly Lys Lys Asp Gly Thr Ser
1 5 10

<210> 17
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = (n-pentyl) 2-N-Leu

<400> 17
Xaa Ile Gly Arg Lys
1 5

<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor antagonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = Me-N-(n-pentyl)

<400> 18
Xaa Leu Ile Gly Arg Lys
1 5

<210> 19
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor agonist/immunogen

<400> 19
Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu Thr
1 5 10

<210> 20
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 20
Ile Ser Tyr His Leu His Gly Asn Asn Trp Val Tyr Gly Glu Ala Leu
1 5 10 15

Cys

<210> 21
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 21
Gln Thr Ile Tyr Ile Pro Ala Leu Asn Ile Thr Thr Cys His Asp Val
1 5 10 15

Leu Pro Glu Glu Val Leu Val Gly Asp Met Phe Asn Tyr Phe Leu
20 25 30

<210> 22
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist/immunogen

<400> 22
His Tyr Phe Leu Ile Lys Thr Gln Arg Gln Ser His Val Tyr Ala
1 5 10 15

<210> 23
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 23
Ser Leu Ile Gly Arg Leu
1 5

<210> 24
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 24
Ser Leu Ile Gly Arg Ala
1 5

<210> 25
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 25
Ser Leu Ile Gly Ala Leu
1 5

<210> 26
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 26
Ser Leu Ile Ala Arg Leu
1 5

<210> 27
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 27
Ser Leu Ala Gly Arg Leu
1 5

<210> 28
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 28
Ser Ala Ile Gly Arg Leu
1 5

<210> 29
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 29
Ala Leu Ile Gly Arg Leu
1 5

<210> 30
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 30
Ser Phe Phe Leu Arg Trp
1 5

<210> 31
<211> 8
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 31
Arg Asn Asn Ser Ser Lys Gly Arg
1 5

<210> 32
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 32
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile Thr
1 5 10

<210> 33
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 33
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro Ile
1 5 10

<210> 34
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 34
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro Pro
1 5 10

<210> 35
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor

agonist

<400> 35
Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro
1 5 10

<210> 36
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 36
Ser Leu Ile Gly Arg Leu Glu Thr Gln
1 5

<210> 37
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 agonist

<400> 37
Ser Leu Ile Gly Arg Leu Glu Thr
1 5

<210> 38
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 38
Ser Leu Ile Gly Arg Leu Glu
1 5

<210> 39
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 39
Ser Leu Ile Gly Arg Leu
1 5

<210> 40
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 40
Ser Leu Ile Gly Arg
1 5

<210> 41
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 41
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val Thr
1 5 10

<210> 42
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 42
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His Val
1 5 10

<210> 43
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 43

Ser Leu Leu Gly Lys Val Asp Gly Thr Ser His
1 5 10

<210> 44
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 44
Ser Leu Leu Gly Lys Val Asp Gly Thr Ser
1 5 10

<210> 45
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 45
Ser Leu Leu Gly Lys Val Asp Gly Thr
1 5

<210> 46
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 46
Ser Leu Leu Gly Lys Val Asp Gly
1 5

<210> 47
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 47
Ser Leu Leu Gly Lys Val Asp

<210> 48
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 48
Ser Leu Leu Gly Lys Val
1 5

<210> 49
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 49
Ser Leu Leu Gly Lys
1 5

<210> 50
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 50
Ser Xaa Ile Gly Arg
1 5

<210> 51
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor

agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 51
Ser Xaa Leu Gly Lys
1 5

<210> 52
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
(2,3-diaP)

<400> 52
Xaa Ile Gly Arg
1

<210> 53
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
(2,3-diaP)

<400> 53
Xaa Leu Leu Gly Lys
1 5

<210> 54
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 54
Ser Leu Leu Gly Lys Arg
1 5

<210> 55
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<400> 55
Ser Leu Ile Gly Arg Arg
1 5

<210> 56
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2= cyclohexylalanine (Cha)

<400> 56
Ser Xaa Leu Gly Lys Lys
1 5

<210> 57
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 agonist
receptor

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 = cyclohexylalanine (Cha)

<400> 57

Ser Xaa Ile Gly Arg Lys
1 5

<210> 58
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
(2,3-diaP)

<400> 58
Xaa Leu Ile Gly Arg Lys
1 5

<210> 59
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: C140 receptor
agonist

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 = 2,3-diamino propionic acid
(2,3-diaP)

<400> 59
Xaa Leu Leu Gly Lys Lys
1 5

<210> 60
<211> 2732
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (73)..(1269)
<223> C140 receptor, cDNA and deduced protein sequences

<400> 60
ccctgtgctc agagtagggc tccgagtttc gaaccactgg tggcggattg cccgcccc 60

ccacgtccgg gg atg cga agt ctc agc ctg gcg tgg ctg ctg gga ggt atc	111
Met Arg Ser Leu Ser Leu Ala Trp Leu Leu Gly Gly Ile	
1 5 10	
acc ctt ctg gcg gcc tcg gtc tcc tgc agc cg acc gag aac ctt gca	159
Thr Leu Leu Ala Ala Ser Val Ser Cys Ser Arg Thr Glu Asn Leu Ala	
15 20 25	
ccg gga cgc aac aac agt aaa gga aga agt ctt att ggc aga tta gaa	207
Pro Gly Arg Asn Asn Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu	
30 35 40 45	
acc cag cct cca atc act ggg aaa ggg gtt ccg gta gaa cca ggc ttt	255
Thr Gln Pro Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe	
50 55 60	
tcc atc gat gag ttc tct gcg tcc atc ctc acc ggg aag ctg acc acg	303
Ser Ile Asp Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr	
65 70 75	
gtc ttt ctt ccg gtc gtc tac att att gtg ttt gtg att ggt ttg ccc	351
Val Phe Leu Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro	
80 85 90	
agt aat ggc atg gcc ctc tgg atc ttc ctt ttc cga acg aag aag aaa	399
Ser Asn Gly Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys Lys	
95 100 105	
cac ccc gcc gtg att tac atg gcc aac ctg gcc ttg gcc gac ctc ctc	447
His Pro Ala Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu	
110 115 120 125	
tct gtc atc tgg ttc ccc ctg aag atc tcc tac cac cta cat ggc aac	495
Ser Val Ile Trp Phe Pro Leu Lys Ile Ser Tyr His Leu His Gly Asn	
130 135 140	
aac tgg gtc tac ggg gag gcc ctg tgc aag gtg ctc att ggc ttt ttc	543
Asn Trp Val Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe	
145 150 155	
tat ggt aac atg tat tgc tcc atc ctc ttc atg acc tgc ctc agc gtg	591
Tyr Gly Asn Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val	
160 165 170	
cag agg tac tgg gtg atc gtg aac ccc atg gga cac ccc agg aag aag	639
Gln Arg Tyr Trp Val Ile Val Asn Pro Met Gly His Pro Arg Lys Lys	
175 180 185	
gca aac atc gcc gtt ggc gtc tcc ttg gca atc tgg ctc ctg att ttt	687
Ala Asn Ile Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe	
190 195 200 205	
ctg gtc acc atc cct ttg tat gtc atg aag cag acc atc tac att cca	735
Leu Val Thr Ile Pro Leu Tyr Val Met Lys Gln Thr Ile Tyr Ile Pro	
210 215 220	
gca ttg aac atc acc acc tgt cac gat gtg ctc gag gag gta ttg	783

Ala	Leu	Asn	Ile	Thr	Thr	Cys	His	Asp	Val	Leu	Pro	Glu	Glu	Val	Leu	
225									230					235		
gtg	ggg	gac	atg	ttc	aat	tac	ttc	ctc	tca	ctg	gcc	att	gga	gtc	ttc	831
Val	Gly	Asp	Met	Phe	Asn	Tyr	Phe	Leu	Ser	Leu	Ala	Ile	Gly	Val	Phe	
240					245							250				
ctg	ttc	ccg	gcc	ctc	ctt	act	gca	tct	gcc	tac	gtg	ctc	atg	atc	aag	879
Leu	Phe	Pro	Ala	Leu	Leu	Thr	Ala	Ser	Ala	Tyr	Val	Leu	Met	Ile	Lys	
255					260						265					
acg	ctc	cgc	tct	tct	gct	atg	gat	gaa	cac	tca	gag	aag	aaa	agg	cag	927
Thr	Leu	Arg	Ser	Ser	Ala	Met	Asp	Glu	His	Ser	Glu	Lys	Lys	Arg	Gln	
270					275				280					285		
agg	gct	atc	cga	ctc	atc	atc	acc	gtg	ctg	gcc	atg	tac	ttc	atc	tgc	975
Arg	Ala	Ile	Arg	Leu	Ile	Ile	Thr	Val	Leu	Ala	Met	Tyr	Phe	Ile	Cys	
290					295							300				
ttt	gct	cct	agc	aac	ctt	ctg	ctc	gta	gtg	cat	tat	ttc	cta	atc	aaa	1023
Phe	Ala	Pro	Ser	Asn	Leu	Leu	Leu	Val	Val	His	Tyr	Phe	Leu	Ile	Lys	
305					310						315					
acc	cag	agg	cag	agc	cac	gtc	tac	gcc	ctc	tac	ctt	gtc	gcc	ctc	tgc	1071
Thr	Gln	Arg	Gln	Ser	His	Val	Tyr	Ala	Leu	Tyr	Leu	Val	Ala	Leu	Cys	
320					325				330							
ctg	tcg	acc	ctc	aac	agc	tgc	ata	gac	ccc	ttt	gtc	tat	tac	ttt	gtc	1119
Leu	Ser	Thr	Leu	Asn	Ser	Cys	Ile	Asp	Pro	Phe	Val	Tyr	Tyr	Phe	Val	
335					340						345					
tca	aaa	gat	ttc	agg	gat	cac	gcc	aga	aac	gcg	ctc	ctc	tgc	cga	agt	1167
Ser	Lys	Asp	Phe	Arg	Asp	His	Ala	Arg	Asn	Ala	Leu	Leu	Cys	Arg	Ser	
350					355				360					365		
gtc	cgc	act	gtg	aat	cgc	atg	caa	atc	tcg	ctc	agc	tcc	aac	aag	ttc	1215
Val	Arg	Thr	Val	Asn	Arg	Met	Gln	Ile	Ser	Leu	Ser	Ser	Asn	Lys	Phe	
370					375								380			
tcc	agg	aag	tcc	ggc	tcc	tac	tct	tca	agc	tca	acc	agt	gtt	aaa	acc	1263
Ser	Arg	Lys	Ser	Gly	Ser	Tyr	Ser	Ser	Ser	Ser	Thr	Ser	Val	Lys	Thr	
385					390								395			
tcc	tac	tgagctgtac	ctgaggatgt	caagcctgct	tgatgtatgt	gatgtatgt										1319
Ser	Tyr															
gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gcacccgtgt	gtgagtgcgt										1379
ggtagggata	caccaacatg	gatggggctg	tcatttccta	tccaagctgt	ctgtctctgc											1439
accaatcaca	agcatgcagc	tctccccagg	attgacagaa	gcctcctcct	ttgcatgaga											1499
acagtcttcc	actctgtatga	aaagcatcag	tatcagaaac	tgaaacgaac	tgagaggagc											1559
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acaaaaaacta	cacctggcaa	gaaggctaaag	actctctgaa	atgctccct	tttccatctg											1679

gagttcgctc cgcccttggtt caggacctga ggccctggta gagcttcagt ccagttgatt 1739
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 ttgaggaaga tctgaaacaa ggggccattt caggagtaca tggctccagg cttactttat 2639
 atactgcctg tatttgcgtt tttaaaaaaaaa tgaccttgc ttatgaatgc tttataaata 2699
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<210> 61
 <211> 399
 <212> PRT
 <213> Mus musculus

<400> 61
 Met Arg Ser Leu Ser Leu Ala Trp Leu Leu Gly Gly Ile Thr Leu Leu
 1 5 10 15
 Ala Ala Ser Val Ser Cys Ser Arg Thr Glu Asn Leu Ala Pro Gly Arg
 20 25 30
 Asn Asn Ser Lys Gly Arg Ser Leu Ile Gly Arg Leu Glu Thr Gln Pro
 35 40 45
 Pro Ile Thr Gly Lys Gly Val Pro Val Glu Pro Gly Phe Ser Ile Asp
 50 55 60
 Glu Phe Ser Ala Ser Ile Leu Thr Gly Lys Leu Thr Thr Val Phe Leu

65	70	75	80
Pro Val Val Tyr Ile Ile Val Phe Val Ile Gly Leu Pro Ser Asn Gly			
85	90	95	
Met Ala Leu Trp Ile Phe Leu Phe Arg Thr Lys Lys Lys His Pro Ala			
100	105	110	
Val Ile Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile			
115	120	125	
Trp Phe Pro Leu Lys Ile Ser Tyr His Leu His Gly Asn Asn Trp Val			
130	135	140	
Tyr Gly Glu Ala Leu Cys Lys Val Leu Ile Gly Phe Phe Tyr Gly Asn			
145	150	155	160
Met Tyr Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr			
165	170	175	
Trp Val Ile Val Asn Pro Met Gly His Pro Arg Lys Lys Ala Asn Ile			
180	185	190	
Ala Val Gly Val Ser Leu Ala Ile Trp Leu Leu Ile Phe Leu Val Thr			
195	200	205	
Ile Pro Leu Tyr Val Met Lys Gln Thr Ile Tyr Ile Pro Ala Leu Asn			
210	215	220	
Ile Thr Thr Cys His Asp Val Leu Pro Glu Glu Val Leu Val Gly Asp			
225	230	235	240
Met Phe Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro			
245	250	255	
Ala Leu Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Lys Thr Leu Arg			
260	265	270	
Ser Ser Ala Met Asp Glu His Ser Glu Lys Lys Arg Gln Arg Ala Ile			
275	280	285	
Arg Leu Ile Ile Thr Val Leu Ala Met Tyr Phe Ile Cys Phe Ala Pro			
290	295	300	
Ser Asn Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Thr Gln Arg			
305	310	315	320
Gln Ser His Val Tyr Ala Leu Tyr Leu Val Ala Leu Cys Leu Ser Thr			
325	330	335	
Leu Asn Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser Lys Asp			
340	345	350	
Phe Arg Asp His Ala Arg Asn Ala Leu Leu Cys Arg Ser Val Arg Thr			
355	360	365	
Val Asn Arg Met Gln Ile Ser Leu Ser Ser Asn Lys Phe Ser Arg Lys			

370

375

380

Ser Gly Ser Tyr Ser Ser Ser Ser Thr Ser Val Lys Thr Ser Tyr
 385 390 395

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 <212> DNA
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 Met Arg Ser
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ccc agc gcg gcg tgg ctg ctg ggg gcc gcc atc ctg cta gca gcc tct 106
 Pro Ser Ala Ala Trp Leu Leu Gly Ala Ala Ile Leu Leu Ala Ala Ser
 5 10 15

ctc tcc tgc agt ggc acc atc caa gga acc aat aga tcc tct aaa gga 154
 Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser Ser Lys Gly
 20 25 30 35

aga agc ctt att ggt aag gtt gat ggc aca tcc cac gtc act gga aaa 202
 Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val Thr Gly Lys
 40 45 50

gga gtt aca gtt gaa aca gtc ttt tct gtg gat gag ttt tct gca tct 250
 Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe Ser Ala Ser
 55 60 65

gtc ctc gct gga aaa ctg acc act gtc ttc ctt cca att gtc tac aca 298
 Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile Val Tyr Thr
 70 75 80

att gtg ttt gcg gtg ggt ttg cca agt aac ggc atg gcc cta tgg gtc 346
 Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala Leu Trp Val
 85 90 95

ttt ctt ttc cga act aag aag cac cct gct gtg att tac atg gcc 394
 Phe Leu Phe Arg Thr Lys Lys His Pro Ala Val Ile Tyr Met Ala
 100 105 110 115

aat ctg gcc ttg gct gac ctc ctc tct gtc atc tgg ttc ccc ttg aag 442
 Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe Pro Leu Lys
 120 125 130

att gcc tat cac ata cat ggc aac aac tgg att tat ggg gaa gct ctt 490
 Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly Glu Ala Leu
 135 140 145

tgt aat gtg ctt att ggc ttt ttc tat cgc aac atg tac tgt tcc att		538	
Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr Cys Ser Ile			
150	155	160	
ctc ttc atg acc tgc ctc agt gtg cag agg tat tgg gtc atc gtg aac		586	
Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val Ile Val Asn			
165	170	175	
ccc atg ggg cac tcc agg aag aag gca aac att gcc att ggc atc tcc		634	
Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile Gly Ile Ser			
180	185	190	195
ctg gca ata tgg ctg ctg act ctg ctg gtc acc atc cct ttg tat gtc		682	
Leu Ala Ile Trp Leu Leu Thr Leu Leu Val Thr Ile Pro Leu Tyr Val			
200	205	210	
gtg aag cag acc atc ttc att cct gcc ctg aac atc acg acc tgt cat		730	
Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr Thr Cys His			
215	220	225	
gat gtt ttg cct gag cag ctc ttg gtg gga gac atg ttc aat tac ttc		778	
Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe Asn Tyr Phe			
230	235	240	
ctc tct ctg gcc att ggg gtc ttt ctg ttc cca gcc ttc ctc aca gcc		826	
Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe Leu Thr Ala			
245	250	255	
tct gcc tat gtg ctg atg atc aga atg ctg cga tct tct gcc atg gat		874	
Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser Ala Met Asp			
260	265	270	275
gaa aac tca gag aag aaa agg aag agg gcc atc aaa ctc att gtc act		922	
Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu Ile Val Thr			
280	285	290	
gtc ctg ggc atg tac ctg atc tgc ttc act cct agt aac ctt ctg ctt		970	
Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn Leu Leu Leu			
295	300	305	
gtg gtg cat tat ttt ctg att aag agc cag ggc cag agc cat gtc tat		1018	
Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser His Val Tyr			
310	315	320	
gcc ctg tac att gta gcc ctc tgc ctc tct acc ctt aac agc tgc atc		1066	
Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn Ser Cys Ile			
325	330	335	
gac ccc ttt gtc tat tac ttt gtt tca cat gat ttc agg gat cat gca		1114	
Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg Asp His Ala			
340	345	350	355
aag aac gct ctc ctt tgc cga agt gtc cgc act gta aag cag atg caa		1162	
Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys Gln Met Gln			
360	365	370	

gta ccc ctc acc tca aag aaa cac tcc agg aaa tcc agc tct tac tct 1210
Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser Tyr Ser
375 380 385

tca agt tca acc act gtt aag acc tcc tat tgagtttcc aggtcctcag 1260
Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr
390 395

atggaaattt cacagtagga tgtggaacct gtttaatgtt atgaggacgt gtctgttatt 1320
tccggatcca gatcttatta aagcagaact tgtttattgc agcttataat gtttacaaat 1380
aaagcaatag catcacaaat ttcacaaata aagc 1414

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<211> 397
<212> PRT
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Ala Ala Ser Leu Ser Cys Ser Gly Thr Ile Gln Gly Thr Asn Arg Ser
20 25 30

Ser Lys Gly Arg Ser Leu Ile Gly Lys Val Asp Gly Thr Ser His Val
35 40 45

Thr Gly Lys Gly Val Thr Val Glu Thr Val Phe Ser Val Asp Glu Phe
50 55 60

Ser Ala Ser Val Leu Ala Gly Lys Leu Thr Thr Val Phe Leu Pro Ile
65 70 75 80

Val Tyr Thr Ile Val Phe Ala Val Gly Leu Pro Ser Asn Gly Met Ala
85 90 95

Leu Trp Val Phe Leu Phe Arg Thr Lys Lys His Pro Ala Val Ile
100 105 110

Tyr Met Ala Asn Leu Ala Leu Ala Asp Leu Leu Ser Val Ile Trp Phe
115 120 125

Pro Leu Lys Ile Ala Tyr His Ile His Gly Asn Asn Trp Ile Tyr Gly
130 135 140

Glu Ala Leu Cys Asn Val Leu Ile Gly Phe Phe Tyr Gly Asn Met Tyr
145 150 155 160

Cys Ser Ile Leu Phe Met Thr Cys Leu Ser Val Gln Arg Tyr Trp Val
165 170 175

Ile Val Asn Pro Met Gly His Ser Arg Lys Lys Ala Asn Ile Ala Ile
180 185 190

Gly Ile Ser Leu Ala Ile Trp Leu Leu Thr Leu Leu Val Thr Ile Pro
 195 200 205
 Leu Tyr Val Val Lys Gln Thr Ile Phe Ile Pro Ala Leu Asn Ile Thr
 210 215 220
 Thr Cys His Asp Val Leu Pro Glu Gln Leu Leu Val Gly Asp Met Phe
 225 230 235 240
 Asn Tyr Phe Leu Ser Leu Ala Ile Gly Val Phe Leu Phe Pro Ala Phe
 245 250 255
 Leu Thr Ala Ser Ala Tyr Val Leu Met Ile Arg Met Leu Arg Ser Ser
 260 265 270
 Ala Met Asp Glu Asn Ser Glu Lys Lys Arg Lys Arg Ala Ile Lys Leu
 275 280 285
 Ile Val Thr Val Leu Gly Met Tyr Leu Ile Cys Phe Thr Pro Ser Asn
 290 295 300
 Leu Leu Leu Val Val His Tyr Phe Leu Ile Lys Ser Gln Gly Gln Ser
 305 310 315 320
 His Val Tyr Ala Leu Tyr Ile Val Ala Leu Cys Leu Ser Thr Leu Asn
 325 330 335
 Ser Cys Ile Asp Pro Phe Val Tyr Tyr Phe Val Ser His Asp Phe Arg
 340 345 350
 Asp His Ala Lys Asn Ala Leu Leu Cys Arg Ser Val Arg Thr Val Lys
 355 360 365
 Gln Met Gln Val Pro Leu Thr Ser Lys Lys His Ser Arg Lys Ser Ser
 370 375 380
 Ser Tyr Ser Ser Ser Thr Thr Val Lys Thr Ser Tyr
 385 390 395

 <210> 64
 <211> 425
 <212> PRT
 <213> Homo sapiens

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 Gly Pro Leu Leu Ser Ala Arg Thr Arg Ala Arg Arg Pro Glu Ser Lys
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 Ala Thr Asn Ala Thr Leu Asp Pro Arg Ser Phe Leu Leu Arg Asn Pro
 35 40 45
 Asn Asp Lys Tyr Glu Pro Glu Trp Glu Asp Glu Glu Lys Asn Glu Ser
 50 55 60

Gly Leu Thr Glu Tyr Arg Leu Val Ser Ile Asn Lys Ser Ser Pro Leu
 65 70 75 80
 Gln Lys Gln Leu Pro Ala Phe Ile Ser Glu Asp Ala Ser Gly Tyr Leu
 85 90 95
 Thr Ser Ser Trp Leu Thr Leu Phe Val Pro Ser Val Tyr Thr Gly Val
 100 105 110
 Phe Val Val Ser Leu Pro Leu Asn Ile Met Ala Ile Val Val Phe Ile
 115 120 125
 Leu Lys Met Lys Val Lys Pro Ala Val Val Tyr Met Leu His Leu
 130 135 140
 Ala Thr Ala Asp Val Leu Phe Val Ser Val Leu Pro Phe Lys Ile Ser
 145 150 155 160
 Tyr Tyr Phe Ser Gly Ser Asp Trp Gln Phe Gly Ser Glu Leu Cys Arg
 165 170 175
 Phe Val Thr Ala Ala Phe Tyr Cys Asn Met Tyr Ala Ser Ile Leu Leu
 180 185 190
 Met Thr Val Ile Ser Ile Asp Arg Phe Leu Ala Val Val Tyr Pro Met
 195 200 205
 Gln Ser Leu Ser Trp Arg Thr Leu Gly Arg Ala Ser Phe Thr Cys Leu
 210 215 220
 Ala Ile Trp Ala Leu Ala Ile Ala Gly Val Val Pro Leu Val Leu Lys
 225 230 235 240
 Glu Gln Thr Ile Gln Val Pro Gly Leu Asn Ile Thr Thr Cys His Asp
 245 250 255
 Val Leu Asn Glu Thr Leu Leu Glu Gly Tyr Tyr Ala Tyr Tyr Phe Ser
 260 265 270
 Ala Phe Ser Ala Val Phe Phe Phe Val Pro Leu Ile Ile Ser Thr Val
 275 280 285
 Cys Tyr Val Ser Ile Ile Arg Cys Leu Ser Ser Ala Val Ala Asn
 290 295 300
 Arg Ser Lys Lys Ser Arg Ala Leu Phe Leu Ser Ala Ala Val Phe Cys
 305 310 315 320
 Ile Phe Ile Ile Cys Phe Gly Pro Thr Asn Val Leu Leu Ile Ala His
 325 330 335
 Tyr Ser Phe Leu Ser His Thr Ser Thr Thr Glu Ala Ala Tyr Phe Ala
 340 345 350
 Tyr Leu Leu Cys Val Cys Val Ser Ser Ile Ser Ser Cys Ile Asp Pro
 355 360 365

Leu Ile Tyr Tyr Tyr Ala Ser Ser Glu Cys Gln Arg Tyr Val Tyr Ser
370 375 380

Ile Leu Cys Cys Lys Glu Ser Ser Asp Pro Ser Ser Tyr Asn Ser Ser
385 390 395 400

Gly Gln Leu Met Ala Ser Lys Met Asp Thr Cys Ser Ser Asn Leu Asn
405 410 415

Asn Ser Ile Tyr Lys Lys Leu Leu Thr
420 425